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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/687,083	10/16/2003	Ibrahim Sendijarevic	TRPI 0103 PUSP	9091
22045	7590 07/26/2005		EXAMINER	
BROOKS KUSHMAN P.C.			PATTERSON, MARC A	
1000 TOWN (CENTER COND FLOOR		ART UNIT	PAPER NUMBER
	D, MI 48075		1772	
		•	DATE MAILED: 07/26/2003	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)					
		10/687,083	SENDIJAREVIC ET AL	L.				
	Office Action Summary	Examiner	Art Unit					
		Marc A. Patterson	1772	<u> </u>				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet w	ith the correspondence addres	is				
THE - Exte after - If the - If NC - Failt Any	HORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period oure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a r ly within the statutory minimum of thir will apply and will expire SIX (6) MON e, cause the application to become AB	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this commul BANDONED (35 U.S.C. § 133).	nication.				
Status	•							
1)🖂	Responsive to communication(s) filed on <u>05 M</u>	<u>//ay 2005</u> .						
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This	2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	tion of Claims							
4)⊠	Claim(s) 1-11,13,14 and 26 is/are pending in the	he application.						
	4a) Of the above claim(s) is/are withdraw	wn from consideration.						
5)	Claim(s) is/are allowed.							
6)⊠	☑ Claim(s) <u>1-11,13,14 and 26</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restriction and/o	or election requirement.						
Applicat	tion Papers		•••					
9)[The specification is objected to by the Examine	er.	•					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any objection to the	drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correct	tion is required if the drawing	(s) is objected to. See 37 CFR 1.	.121(d).				
11)	The oath or declaration is objected to by the Ex	xaminer. Note the attached	d Office Action or form PTO-1	52.				
Priority (under 35 U.S.C. § 119							
•	Acknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority document: Certified copies of the priority document:	ts have been received.	, ,,,,,,,					
	Copies of the certified copies of the prior application from the International Bureau	rity documents have been		је				
* (See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	received.					
Attachmen	it(s)							
1) 🔯 Notic	ce of References Cited (PTO-892)	4) Interview S	Summary (PTO-413)					
2) 🔲 Notic	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	s)/Mail Date	, ·				
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	5) Notice of Ir 6) Other:	nformal Patent Application (PTO-152) —·	,				

Part of Paper No./Mail Date 07162005

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DETAILED ACTION

NEW REJECTIONS

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 11, 13 14 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schneider (U.S. Patent No. 3,415,364) in view of Helsemans et al (U.S. Patent No. 5,418,261).

With regard to Claim 1, Schneider discloses a protective packaging for protecting an article (a object; column 3, lines 15 - 18; Figures 2 - 3) comprised of a foam structure (column 3, lines 15 - 18) conforming to a portion of article for protecting the article (column 7, lines 15 - 19); the foam comprises polyurethane foam (column 5, lines 12 - 16). Schneider fails to disclose a foam comprising a shape memory foam.

Helsemans et al teach a polyurethane foam (column 1, lines 50 - 54) for packaging (column 4, lines 28 - 32) which is a shape memory foam (column 4, lines 9 - 10) for the purpose of obtaining a packaging that is lightweight (column 4, lines 28 - 30). One of ordinary skill in the art would therefore have recognized the advantage of providing for the polyurethane foam of Helsemans et al in Schneider, which comprises packaging, depending on the desired lighweightness of the end product.

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It therefore would have been obvious for one of ordinary skill in the art at the time

Applicant's invention was made to have provided for a shape memory foam in Schneider in

order to obtain a packaging that is lightweight as taught by Helsemans et al.

With regard to Claim 2, Helsemans et al teaches a foam having a glass transition temperature of above room temperature (column 1, lines 19-21) and exhibits the shape memory property (column 1, lines 19-21) and therefore has a shape memory characteristic such that when it is deformed or compressed from an original shape above the glass transition temperature to produce a compressed shape and then cooled, it retains the compressed shape. However, the claimed aspect of the film having the property that when it is deformed or compressed from an original shape above the glass transition temperature to produce a compressed shape and then cooled, it retains the compressed shape is directed to an intended use of the invention, rather than a structural limitation, and is therefore given little patentable weight.

With regard to Claim 3, the structure taught by Helsemans et al comprises a thermoset shape memory foam (comprising a crosslinking agent; column 3, line 36).

With regard to Claims 4 and 14, the structure taught by Helsemans et al is produced by reacting an isocyanate and a polyol (column 1, lines 50 - 55) and is therefore hydrophobic.

With regard to Claim 5, the structure taught by Helsemans et al comprises a polyether polyol (polyoxypropylene polyol; column 2, lines 48 – 52).

With regard to Claim 6, the polyol taught by Helsemans et al has an average functionality of between 2 and 4 (2.2; column 1, lines 58 - 62).

With regard to Claim 7, the isocyanate taught by Helsemans et al has an average functionality of between 2 and 3 (2.25; column 2, lines 20 - 22).

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With regard to Claims 8 and 11, the foam taught by Helsemans et al is produced by

reacting the isocyanate with the polyol (column 1, lines 50 - 55) and a chain extender (column 3,

lines 30 - 35), and is therefore compressible to less than 50% of the original volume.

With regard to Claim 9, the foam taught by Helsemans et al has an open cell structure

(column 1, line 37).

With regard to Claim 10, Helsemans et al teaches a glass transition temperature that is usually higher than room temperature (column 1, lines 19-21), and therefore also discloses a

glass transition temperature that is less than room temperature and therefore less than 21 degrees

Celsius.

With regard to Claim 13, the foam disclosed by Schneider is encased in a film (contained

in an impervious bag comprising polyethylene, therefore a film comprising polyethylene; column

2, lines 34 - 35; column 4, lines 53 - 61).

With regard to Claim 26, the foam taught by Helsemans et al has a glass transition

temperature, as discussed above, and therefore has a temperature above which its structure is

rigid and below which its structure is elastic.

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Marc A Patterson whose telephone number is 571-272-1497.

The examiner can normally be reached on Mon - Fri 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Harold Pyon can be reached on 571-272-1498. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Marc A. Patterson, PhD. Examiner
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